

## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Submit Comments: March 19, 2008

Applicant's or agent's file reference <b>9015.182WOU1</b>	<b>FOR FURTHER ACTION</b> see Form PCT/ISA/220 as well as, where applicable, Item 5 below.	
International application No. <b>PCT/US2007/017122</b>	International filing date (day/month/year) <b>31/07/2007</b>	(Earliest) Priority Date (day/month/year) <b>03/08/2006</b>
Applicant  <b>SMITHS MEDICAL MD, INC.</b>		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 7 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

a. With regard to the **language**, the international search was carried out on the basis of:

- ☒ the international application in the language in which it was filed  
☐ a translation of the international application into \_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

b. ☐ This international search report has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43.6bis(a)).

c. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☒ **Certain claims were found unsearchable** (See Box No. II)

3. ☐ **Unity of invention is lacking** (see Box No III)

4. With regard to the **title**,

- ☐ the text is approved as submitted by the applicant  
☒ the text has been established by this Authority to read as follows:

**GRAPHICAL USER INTERFACE FOR MEDICAL INFUSION PUMPS**

5. With regard to the **abstract**,

- ☐ the text is approved as submitted by the applicant  
☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority

6. With regard to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. 18  
☐ as suggested by the applicant  
☐ as selected by this Authority, because the applicant failed to suggest a figure  
☒ as selected by this Authority, because this figure better characterizes the invention  
b. ☐ none of the figures is to be published with the abstract

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2007/017122

## Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

Methods and apparatus for programming a medical infusion pump are disclosed. One method includes displaying a meter having two or more positions, each of the two or more positions representing a corresponding parameter value programmable into the medical infusion pump. The method further includes displaying an indicator having a selectable positional relationship to the meter, the selected position corresponding to a parameter value.

# INTERNATIONAL SEARCH REPORT

International application No  
PCT/US2007/017122

**A. CLASSIFICATION OF SUBJECT MATTER**  
INV. G06F19/00

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2006/023636 A (MEDTRONIC INC [US]) 2 March 2006 (2006-03-02) abstract, Figures 56, 61, 83, 85, 92, 97-100 and paragraphs 11, 178, 190-192 and 198	25
X	GB 2 312 055 A (BAXTER INT [US]) 15 October 1997 (1997-10-15) abstract, summary, Figures 4, 5 and 28, and page 13 lines 5-10 and page 26 l.24 - p.27 l.6	25
X	US 2003/163088 A1 (BLOMQUIST MICHAEL L [US]) 28 August 2003 (2003-08-28) abstract, summary, Figure 9 and paragraph 71, and Figure 13 and paragraphs 125-129	25
	----- -/--	

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

\* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*Z\* document member of the same patent family

Date of the actual completion of the international search

7 February 2008

Date of mailing of the international search report

19/02/2008

Name and mailing address of the ISA/  
European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax (+31-70) 340-3016

Authorized officer

Huber, Alexander

# INTERNATIONAL SEARCH REPORT

International application No  
PCT/US2007/017122

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>WO 2006/073400 A (ADVANCED MEDICAL OPTICS INC [US]; CLAUS MICHAEL J [US]) 13 July 2006 (2006-07-13) abstract, summary, Figures 3,5, paragraphs 25,27,28</p> <p style="text-align: center;">-----</p>	25

## FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.2

Claims Nos.: 1-24,26-37

The application does not meet the requirements of Article 6 PCT, because claims 1-24 and 26-37 are not clear. These claims, in particular the independent claims 1, 16, 26 and 32 are drafted in such unclear and vague manner and use unclear terms without a well recognized technical meaning, that it was not possible to unambiguously and clearly determine the extent of the subject-matter intended to be claimed in terms of technical features. In particular, the wordings "displaying a meter having two or more locations, each of the two or more locations representing a corresponding parameter value" and "an indicator having a selectable positional relationship to the meter" are not clear. Therefore, a meaningful search of their claimed subject-matter could not be carried out.

Independent claim 25 uses the unclear wording "a slider bar having a plurality of locations, each of the plurality of locations representing a corresponding parameter value". The technical features defined by this wording could not be determined.

However, it seems that the subject-matter intended to be claimed is the subject-matter of independent claim 25 without the unclear wording explained above. Hence, the search was carried out based on claim 25 without the unclear wording "a slider bar having a plurality of locations, each of the plurality of locations representing a corresponding parameter value".

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.2), should the problems which led to the Article 17(2)PCT declaration be overcome.

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US2007/017122

## Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.: 1-24, 26-37  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:  
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers allsearchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search reportcovers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

### Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☐ No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2007/017122

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 2006023636	A	02-03-2006	EP 1846099 A1	24-10-2007
			EP 1809375 A1	25-07-2007
			EP 1804915 A1	11-07-2007
			EP 1841499 A1	10-10-2007
			US 2006041287 A1	23-02-2006
			US 2006041222 A1	23-02-2006
			US 2006041288 A1	23-02-2006
			US 2006041223 A1	23-02-2006
			WO 2006023640 A1	02-03-2006
			WO 2006023686 A1	02-03-2006
			WO 2006023688 A1	02-03-2006
GB 2312055	A	15-10-1997	AU 713132 B2	25-11-1999
			AU 1708097 A	29-10-1997
			CA 2223897 A1	16-10-1997
			DE 69720637 D1	15-05-2003
			DE 69720637 T2	22-01-2004
			DE 69725617 D1	20-11-2003
			DE 69725617 T2	15-04-2004
			DK 837708 T3	21-07-2003
			DK 0985421 T3	01-12-2003
			EP 0837708 A1	29-04-1998
			HK 1023955 A1	12-01-2001
			HK 1028211 A1	11-05-2001
			HK 1002353 A1	31-08-2001
			JP 11507860 T	13-07-1999
			JP 2004000775 A	08-01-2004
			JP 2007075649 A	29-03-2007
			NZ 329319 A	29-07-1999
			SG 79298 A1	20-03-2001
			SG 91851 A1	15-10-2002
			SG 82049 A1	24-07-2001
			WO 9737704 A1	16-10-1997
			US 5782805 A	21-07-1998
US 2003163088	A1	28-08-2003	NONE	
WO 2006073400	A	13-07-2006	AU 2005323538 A1	13-07-2006
			CA 2593227 A1	13-07-2006
			EP 1833438 A1	19-09-2007